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The Files

13 September 1957

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Trip Report - [REDACTED] Task Order 5 with [REDACTED]
Miniature Coaxial Cable Transmission System

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1. On 5 September 1957 I visited the plant of the [REDACTED] Corporation to determine the status and initially become acquainted with the current activities of the subject task. Those contacted were:

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2. The engineers concerned with this task reported the first major problem now under investigation will be to obtain or solve the coaxial cable design considerations. In view of economy, first an attempt is being made to obtain a satisfactory catalog item. Should this not be available, a cable must be developed meeting the characteristics within the size permitted. The Amphenol Company has a catalog item nearly meeting the requirements. Should it be necessary to develop the required cable, gold plating of the outer braid and inner conductor has been considered in meeting the minimum resistance requirements. The cable color requirement will be no problem.

3. The final cable design will also influence the repeater circuitry considerations. Therefore, the repeater design considerations cannot be completed until the cable problem is solved. Although, a repeater breadboard layout and test measurements have been made on a preliminary model nearly fulfilling the required frequency range using miniature components. The Research group is also presently searching the commercial markets for extremely small repeater components. Finding these components presents a formidable problem to them, as extremely small components are necessary to keep within size limitations.

4. An inquiry type report will be forthcoming in the next few weeks from [REDACTED] weighing the advantages and disadvantages of various sizes of cable. A very wide margin of cost exists between small variations in reducing or increasing the size of the coaxial cable. They desire information on what tolerances can be permitted if any.

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